

09847935blessing

L8 ANSWER 1 OF 2 CA COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 109:148379 CA
TITLE: Effect of varying concentrations of linoleic acid on
α-adrenoceptor responses in spontaneously
hypertensive rats
AUTHOR(S): Crandall, David L.; Goldstein, Brian M.; Lozito,
Robert J.; Lizzo, Florence H.; Cervoni, Peter
CORPORATE SOURCE: Med. Res. Div., Am. Cyanamid Co., Pearl River, NY,
10965, USA
SOURCE: Prostaglandins, Leukotrienes and Essential Fatty Acids
(1988), 33(2), 115-19
CODEN: PLEAEU; ISSN: 0952-3278
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The effect of increased intake of linoleic acid on the α-adrenergic
system was assessed by safflower oil supplementation to spontaneously
hypertensive rats. Linoleic acid-enriched intake at 5, 15, and 30% by weight
of total food intake for 12 wk was associated with a reduction in resting
arterial blood pressure, whereas heart rate and heart-to-body weight ratios
were similar to control group values. A dose-response anal. to
norepinephrine bitartrate administered i.v. indicated a significant reduction
in the vascular reactivity to this **α-adrenergic
agonist** in all groups given linoleic acid. Direct assessment of
α-adrenoceptor number (Bmax) and affinity (KD) in cardiac sarcolemma
with [³H]prazosin indicated that receptor binding properties were not
affected by linoleic acid intake. Thus, short-term linoleic acid
supplementation in the established hypertensive state may lower blood
pressure through effects upon α-adrenergic reactivity in vascular
tissue, without associated effects in cardiac tissue.

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=> d his

(FILE 'HOME' ENTERED AT 12:46:33 ON 21 MAY 2004)

FILE 'REGISTRY' ENTERED AT 12:46:40 ON 21 MAY 2004

L1 0 S DOCOSAHEXANOIC ACID/CN
L2 2 S DOCOSAHEXANOIC ACID
L3 1 S LINOLEIC ACID/CN

FILE 'CA, CAPLUS' ENTERED AT 12:49:35 ON 21 MAY 2004

L4 8 S L2
L5 62808 S L3
L6 2553 S ALPHA ADRENERGIC AGONIST
L7 0 S L6 AND L4
L8 2 S L6 AND L5

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WEST Search History

DATE: Friday, May 21, 2004

Hide? Set Name Query Hit Count

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ

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<input type="checkbox"/> L9	alpha-2-adrenergic agonist or brimonidine	224
<input type="checkbox"/> L8	15 same 16	5
<input type="checkbox"/> L7	14 same 16	2
<input type="checkbox"/> L6	alpha-2-adrenergic agonis or brimonidine	177
<input type="checkbox"/> L5	linoleic acid	22251
<input type="checkbox"/> L4	docosahexanoic acid	329

DB=USPT; PLUR=YES; OP=ADJ

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<input type="checkbox"/> L2	6242442.pn.	1
<input type="checkbox"/> L1	5118493.pn.	1

END OF SEARCH HISTORY